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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/625,054	07/22/2003		William H. Eby	1421-125	1106
32905	7590	12/02/2005		EXAMINER	
		CIATES P.C.	COLLINS, CYNTHIA E		
858 HAPPY CANYON ROAD SUITE 230 CASTLE ROCK, CO 80108				ART UNIT	PAPER NUMBER
0110122	, , , , ,			1638	
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Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
-	10/625,054	EBY ET AL.
Office Action Summary	Examiner	Art Unit
	Cynthia Collins	1638
The MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPL' WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).
Status		
 Responsive to communication(s) filed on 22 Jet This action is FINAL. Since this application is in condition for alloward closed in accordance with the practice under Exercise. 	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) □ Claim(s) 1-22 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) □ Claim(s) is/are allowed. 6) □ Claim(s) 1-22 is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/o	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Examine 11.	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). lected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Bureau * See the attached detailed Office action for a list	s have been received. s have been received in Applicati rity documents have been receive u (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s) I) ☑ Notice of References Cited (PTO-892)	4) ☐ Interview Summary	(PTO-413)
Notice of References Cited (F10-692) Notice of Draftsperson's Patent Drawing Review (PT0-948) Notice of Draftsperson's Patent Drawing Review (PT0-948) Information Disclosure Statement(s) (PT0-1449 or PT0/SB/08) Paper No(s)/Mail Date 0405.	Paper No(s)/Mail Da	

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DETAILED ACTION

Claims 1-22 are pending and are examined.

Information Disclosure Statement

An initialed and dated copy of Applicant's IDS form 1449, filed April 15, 2005, is attached to the instant Office action.

Drawings

No drawing has been submitted in the instant application.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

Claims 9-22 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

The claims are drawn to soybean plants and methods of producing soybean plants that involve an indeterminate number of generations and parent plants or of introduced transgenes of unknown function and number, and not described in the specification, wherein it remains unclear what the identity of the plants in each of the steps would be,

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much less what the resultant product plant would be. Neither the plants required by each of the steps, nor the plants that are produced by the process are defined by genomic structure or by phenotypic characteristics, and therefore, the claimed invention lacks an adequate written description.

In addition, the claims are drawn to hybrid soybean seeds, plants produced from said seeds and seeds produced from said plants, wherein one of the parents is soybean cultivar SO22218 and the other parent plant is not specified. The hybrid plants are not defined by genomic structure or by phenotypic characteristics, and it is unclear what characteristics of soybean cultivar SO22218 would be present in the claimed hybrid seeds and plants. Due to the segregation and recombination of the parent genomes during meiosis, one cannot predict what traits or combinations of traits will be passed on to any given hybrid seed and plant. In fact, *each* hybrid seed derived from a cross between two genetically distinct parent plants will have unique combinations of characteristics.

See *University of California v. Eli Lilly*, 119 F.3d 1567, 43 USPQ 2d 1405 (Fed, Cir. 1997), where it states: "[a] written description of an invention involving a chemical genus, like a description of a chemical species, 'requires a precise definition, such as by structure, formula, [or] chemical name,' of the claimed subject matter sufficient to distinguish it from other materials."

In the instant case the specification does not reasonably convey to those skilled in the art that the applicant was in possession of the claimed invention as of the date of invention because Applicant has not described the structural and physical characteristics of the claimed compositions.

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Claims 1-22 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention.

The invention appears to employ the seed of novel plants. Since the seed claimed is essential to the claimed invention, it must be obtainable by a repeatable method set forth in the specification or otherwise be readily available to the public. If a seed is not so obtainable or available, the requirements of 35 U.S.C. 112 may be satisfied by a deposit thereof. The specification does not disclose a repeatable process to obtain the exact same seed in each occurrence and it is not apparent if such a seed is readily available to the public.

If the deposit of these seeds is made under the terms of the Budapest Treaty, then an affidavit or declaration by the applicants, or a statement by an attorney of record over his or her signature and registration number, stating that the seeds will be irrevocably and without restriction or condition released to the public upon the issuance of a patent would satisfy the deposit requirement made herein. A minimum deposit of 2500 seeds is considered sufficient in the ordinary case to assure availability through the period for which a deposit must by maintained.

If the deposit has not been made under the Budapest Treaty, then in order to certify that the deposit, meets the criteria set forth in 37 CFR 1.801-1.809, applicants may provide assurance of compliance by an affidavit or declaration, or by a statement by an attorney of record over his or her signature and registration number showing that

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(a) during the pendency of the application, access to the invention will be afforded to the Commissioner upon request;

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- (b) all restrictions upon availability to the public will be irrevocably removed upon granting of the patent;
- (c) the deposit will be maintained in a public depository for a period of 30 years or 5 years after the last request or for the enforceable life of the patent, whichever is longer;
- (d) the viability of the biological material at the time of deposit will be tested (see 37 CFR 1.807); and
 - (e) the deposit will be replaced if it should ever become inviable.

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1, 2, 6, 7, 12, 14, 16, 18, 19 and 21 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Dependent claims are included in all rejections.

Claims 1, 2, 7, 12, 14 and 16 are indefinite in their recitation of "ATCC Accession No. ", because the ATCC Accession No. is missing.

Claims 1, 2, 7, 12, 14 and 16 are indefinite in the recitation of "SO22218", given that a name does not clearly identify the claimed soybean cultivar and seed, and does not set forth the metes and bounds of the claimed invention. Since the name SO22218 is not known in the art, the use of said name does not carry art recognized limitations as to the

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specific characteristics or essential characteristics which are associated with that denomination. In addition, the name appears to be arbitrary and the specific characteristics associated therewith could be modified, as there is no written description of the soybean plant that encompasses all of its traits. Amending the claims to recite the ATCC deposit number would overcome the rejection.

Claim 6 is indefinite because many of the members of the Markush group are not tissue types, but rather are cell types or organ types, and hence do not further define "tissue".

Claim 7 is indefinite in the recitation of "capable of expressing". It is not clear if the plant actually does express all these characteristics. It is suggested that "capable of" be replaced with --having-- in order to overcome the rejection.

The phrase "under plant growth conditions" recited in claims 12, 14 and 16 is indefinite because Applicant has not defined appropriate plant growth conditions.

Deletion of the phrase would overcome the rejection.

Claim 14 is indefinite in part c) as a plant variety would not be "crossed" with itself, but with a different plant variety.

Claims 18 and 21 are indefinite in the recitation of "wherein said transgene is selected from the group consisting of: herbicide resistance, insect resistance, and disease resistance.", as herbicide resistance, insect resistance, and disease resistance are not transgenes.

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Claim Rejections - 35 USC § 102/103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 9-22 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Moots C.K. (US Patent 5,659,120, filed May 20, 1996 and issued August 19, 1997).

Applicants have claimed a plant derived from soybean cultivar SO22218 after at least one cross and using unspecified second parents, and a method of crossing using said plants. In addition, some of the claims specify that at least two designated characteristics would be present in the claimed soybean. However, it appears that the claimed plants and seeds are the same as the prior art soybean cultivar 928933959, given that each has the same characteristics, including: yellow seed coat color, dull seed coat luster, black hilum color, yellow cotyledon color, ovate leaf shape, medium leaflet size, white flower color, tan pod color, tawny pubescence color, indeterminate plant habit, Maturity Group III and Roundup herbicide resistance, for example. Alternatively, if the claimed plants and seeds derived from soybean cultivar SO22218 are not identical to soybean cultivar

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928933959, then it appears that soybean cultivar 928933959 only differs from the claimed plants and seeds due to minor morphological variation, wherein said minor morphological variation would be expected to occur in different progeny of the same cultivar, and wherein said minor morphological variation would not confer a patentable distinction to a plant derived from soybean cultivar SO22218. Similarly, the methods of crossing SO22218 -derived soybeans would be the same as the methods of crossing prior art soybean cultivar 928933959 or its progeny. Thus the claimed invention was *prima* facie obvious as a whole to one of ordinary skill in the art at the time it was made, if not anticipated by soybean cultivar 928933959 soybean plants or their progeny and methods of their use.

Remarks

No claim is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cynthia Collins whose telephone number is (571) 272-0794. The examiner can normally be reached on Monday-Friday 8:45 AM -5:15 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anne Marie Grunberg can be reached on (571) 272-0975. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Cynthia Collins Primary Examiner Art Unit 1638

CC

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11/18/05